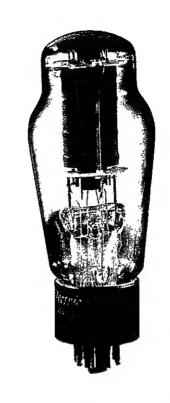
BELL SYSTEM PRACTICES Transmission Engineering Data Vacuum Tube Data

OK for Plant Dyb use. S. J. H. 6/15/0

SECTION AB 46.350B Issue 1, January 1950 A.T.&T. Co. Standard



# TETRODE BEAM POWER AMPLIFIER

## Western Electric

#### DESCRIPTION

The 350B is a beam power tetrode of the neater-cathode type. It is designed for use as an audio-frequency amplifier or as a radio-frequency oscillator.

#### CHARACTERISTICS

Heater Voltage											6.3	volts
Plate Current .		)	172		E	_	750	 14	(		93	milliamperes
Transconductance			$\mathbf{E}^{\mathfrak{p}}$					its;	₹		8300	micromhos
Power Output .		- 5	$\mathbf{E}_{\mathrm{e}_{1}}$	=	-1	4 v	olts		- 1		10.5	watts

ELECTRON TUBE DATA SHEET FILE: GENERAL PURPOSE SECTION 3-49

34500 ohms

2500 ohms

9.6 per cent

11 per cent

37500

2000

10.5

11

57500

3200

15.8

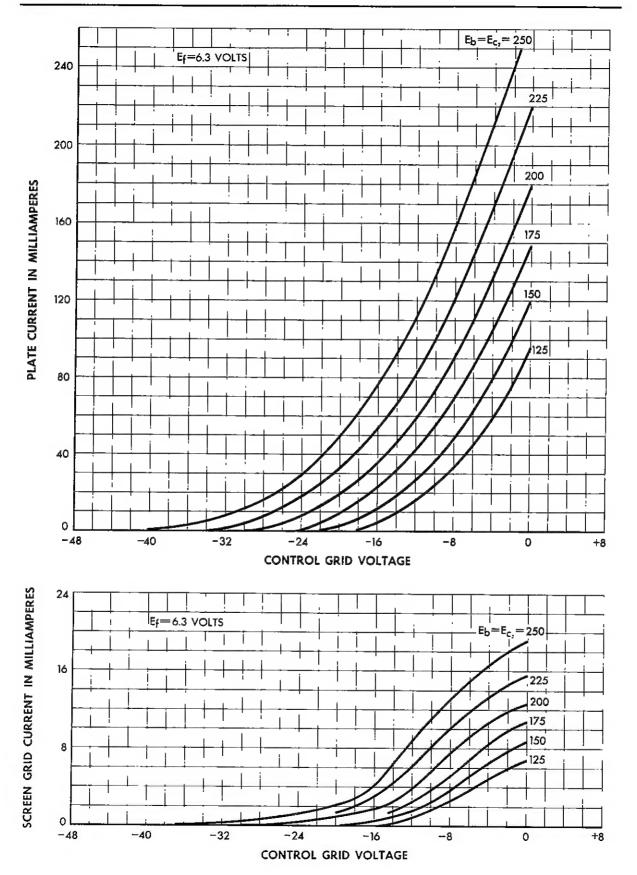
18

Maximum Signal Power Output

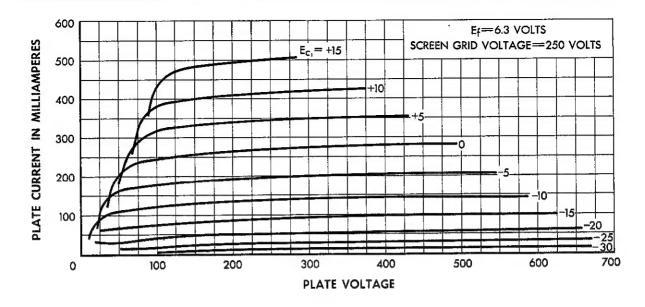
Load Resistance . . .

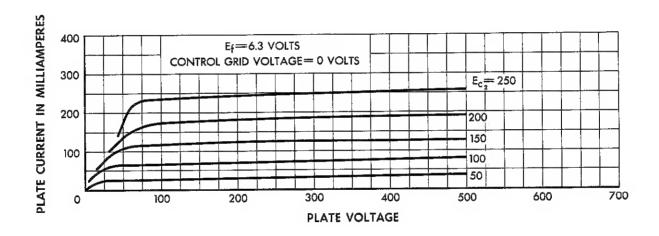
							PAGE 3 - 350B
SINGLE TUBE AMPLIFIER (TRIODE CONNEC	TIOI	VS*)	_ (	LAS	S Aı		
Plate Voltage					•	250	250 volts
Control Grid Voltage						-20	volts
Cathode Resistor							350 ohms
Peak A-F Grid Voltage						20	20 volts
Zero Signal Plate Current						50	50 milliamperes
Maximum Signal Plate Current						56.0	52.2 milliamperes
Transconductance						6400	6800 micromhos
Amplification Factor						8	8
Plate Resistance						1250	1180 ohms
Load Resistance						5000	6000 ohms
Maximum Signal Power Output						1.7	1.5 watts
Total Harmonic Distortion						5	3.6 per cent
	•	•	•	•		Ü	0.0 por 0.00
PUSH-PULL AMPLIFIER — CLASS A; Unless otherwise specified, values are	e fo	-24	ta i ba	20			
Plate Voltage .				9	250	270	270 volts
Screen Grid Voltage					250	270	270 volts
<del>-</del>					-15	-17.5	volts
Control Grid Voltage							75 ohms
Cathode Resistor					30	35	32 volts
Peak A-F Grid-to-Grid Voltage					165	163	184 milliamperes
Zero Signal Plate Current					203	212	196 milliamperes
Maximum Signal Plate Current						12	16 milliamperes
Zero Signal Screen Grid Current					13	12 28	24 milliamperes
Maximum Signal Screen Grid Current .					24		9500 micromhos
Transconductance					8200	8050	35500 ohms
Plate Resistance					37500	50000	3000 ohms
Effective Load Resistance (Plate-to-Plate					2000	2000	
Maximum Signal Power Output			•		15.5	20.0	18.6 watts
Total Harmonic Distortion		•			2.5	3.5	6.3 per cent
PUSH-PULL AMPLIFIER — CLASS AB   Unless otherwise specified, values are		r 2 t	tube	98			
Plate Voltage						360	360 volts
Screen Grid Voltage						270	270 volts
Control Grid Voltage						-25	volts
Cathode Resistor					: .	• • •	130 ohms
Peak A-F Grid-to-Grid Voltage						50	45 volts
Zero Signal Plate Current						68	132 milliamperes
Maximum Signal Plate Current			·			162	155 milliamperes
Zero Signal Screen Grid Current			•	•		2.5	5.5 milliamperes
Maximum Signal Screen Grid Current .						24.5	18 milliamperes
Effective Load Resistance (Plate-to-Plate						3000	5000 ohms
Maximum Signal Power Output						22	25 watts
Total Harmonic Distortion						5	14 per cent
Lotal Harmonic Distortion	•	•	•	•		Ş	II per cent

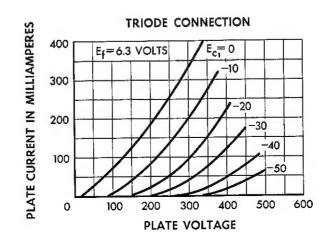
<sup>\*</sup>Screen grid connected to plate.

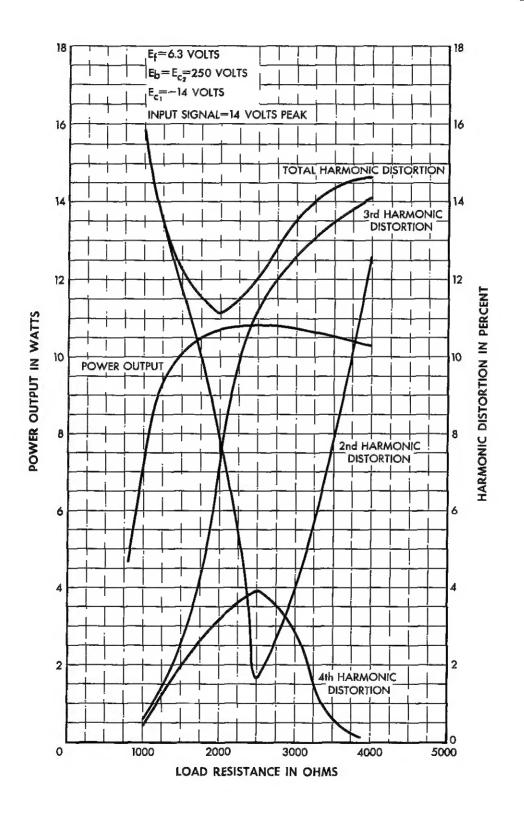


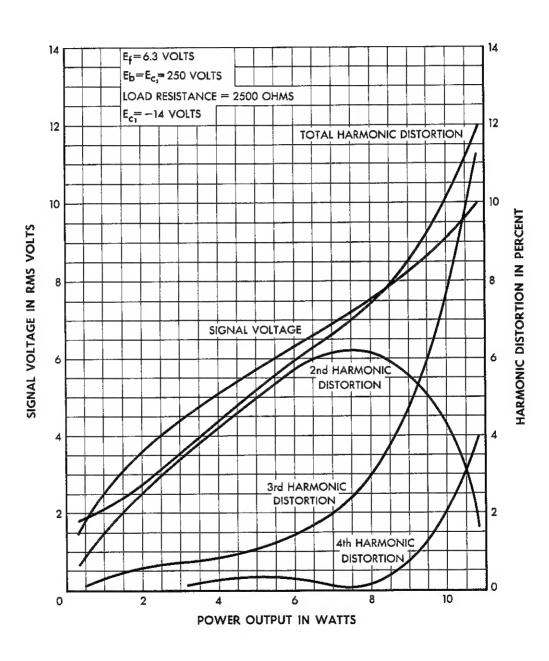
.

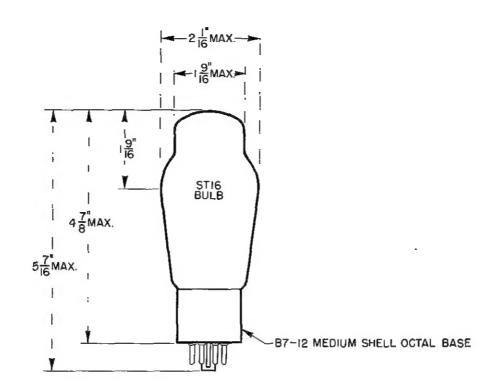


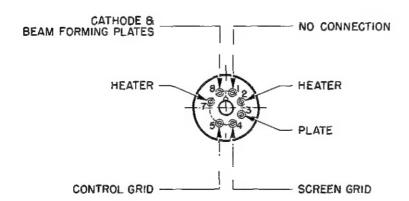












### Western Electric

A development of Bell Telephone Laboratories, the research laboratories of the American Telephone and Telegraph Company and the Western Electric Company.